

## PROTECH-OCEANS DOMAIN LABOR CATEGORY DESCRIPTIONS

**Category 1: Coastal Hazards Services.** Examples include (but not limited to) coastal engineering, environmental engineering, hazard mitigation, emergency response management, climate engineering, environmental hazard prevention, control, and remediation, remote sensing, coastal and marine policy, and coastal surveying.

### Coastal Hazard Services Subcategories

- Level 1: MA/MS in Marine Science, Engineering, Biology, Oceanography, GIS, Remote Sensing, or related field, and a minimum of 4 years of directly related experience
- Level 2: MA/MS in Marine Science, Engineering, Biology, Oceanography, GIS, Remote Sensing, or related field, and a minimum of 8 years of directly related experience
- Level 3: Ph.D. in Marine Science, Engineering, Biology, Oceanography, GIS, Remote Sensing, or related field, and a minimum of 4 years of directly related experience
- Level 4: Ph.D. in Marine Science, Engineering, Biology, Oceanography, GIS, Remote Sensing, or related field, and a minimum of 8 years of directly related experience

**Category 2: Coastal Management Services.** Examples include (but not limited to) logistical management, resiliency planning, environmental engineering, climate change analysis, water management, coastal and marine policy, and supply chain analysis.

### Coastal Management Services Subcategories

- Level 1: MA/MS in Marine Science, Engineering, Biology, Oceanography, GIS, Remote Sensing, or related field, and a minimum of 4 years of directly related experience
- Level 2: MA/MS in Marine Science, Engineering, Biology, Oceanography, GIS, Remote Sensing, or related field, and a minimum of 8 years of directly related experience
- Level 3: Ph.D. in Marine Science, Engineering, Biology, Oceanography, GIS, Remote Sensing, or related field, and a minimum of 4 years of directly related experience
- Level 4: Ph.D. in Marine Science, Engineering, Biology, Oceanography, GIS, Remote Sensing, or related field, and a minimum of 8 years of directly related experience

**Category 3: Environmental Sciences.** Examples include (but not limited to) environmental consulting, education, management, conservation, water quality, recycling, sustainability analysis, field work, coastal and marine policy and planning, scientific technical writing and review, and biological, physical, and earth scientific analysis.

### Environmental Sciences Subcategories

- Level 1: BA/BS. in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, and a minimum of 8 years of directly related experience
- Level 2: MA/MS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, and a minimum of 8 years of directly related experience
- Level 3: Ph.D. in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, and a minimum of 4 years of directly related experience.
- Level 4: Ph.D. in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, and a minimum of 8 years of directly related experience
- Level 5: Ph.D. in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, and a minimum of 16 years of directly related experience.

**Category 4: Geographic Information Systems (GIS) Analysis.** Examples include (but not limited to) collection, management, analysis, modeling, and presenting geographic or spatial data, concept formulation, statistics, computer science, remote sensing, and constructing applications in relation to GIS data and overlays of maps and datasets.

GIS Analysis Subcategories

- Level 1: BA/BS in Computer Science, Marine Science, GIS, Remote Sensing, or a related field, and a minimum of 4 years of directly related experience.
- Level 2: MA/MS in Computer Science, Marine Science, GIS, Remote Sensing, or a related field, and a minimum of 4 years of directly related experience.
- Level 3: Ph.D. in Computer Science, Marine Science, GIS, Remote Sensing, or a related field, and a minimum of 4 years of directly related experience; or a MS/MA plus a minimum of 8 years of directly related experience.
- Level 4: Ph.D. in Computer Science, Marine Science, GIS, Remote Sensing, or a related field, plus a minimum of 8 years of directly related experience; or a MA/MS plus a minimum of 16 years of directly related experience.

**Category 5: Geographic Information Systems Data (GIS) Management.** Examples include (but not limited to) metadata conformation and standardization, digital cartography, image processing, concept formulation, software architecture and engineering, integration of general software applications with GIS software, statistics, GIS operation, geospatial production techniques, remote sensing, and photogrammetry.

GIS Management Subcategories

- Level 1: Ph.D. in Computer Science, Marine Science, GIS, Remote Sensing, or a related field, plus a minimum of 4 years of directly related experience; or a MS/MA plus a minimum of 8 years of directly related experience.
- Level 2: Ph.D. in Computer Science, Marine Science, GIS, Remote Sensing, or a related field, plus a minimum of 8 years of directly related experience; or a MA/MS plus a minimum of 16 years of directly related experience.
- Level 3: Ph.D. in Computer Science, Marine Science, GIS, Remote Sensing, or a related field, plus a minimum of 16 years of directly related experience; or a MA/MS plus a minimum of 25 years of directly related experience.

**Category 6: Program Analysts.** Examples include (but not limited to) operational assistance, policy research, analysis, and recommendations, budgetary analysis, database management, economics (including all manner of socioeconomic studies and analysis), statistical analysis, coastal and marine policy, and quality control.

Program Analysis Subcategories

- Level 1: BA/BS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 4 years of directly related experience.
- Level 2: MA/MS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 4 years of directly related experience.
- Level 3: Ph.D. in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 4 years of directly related experience.
- Level 4: Ph.D. in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 8 years of directly related experience.

**Category 7 Program Management.** Examples include (but not limited to) qualitative and quantitative analysis of the effectiveness of organizational programs, evaluation of efficiency of complex program operations, financial analysis and management, issue analysis, extrapolation, presentation, and implementation, quality control, coastal and marine policy, and database analysis.

Program Management Subcategories

- Level 1: BA/BS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 4 years of directly related experience.
- Level 2: BA/BS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 8 years of directly related experience.
- Level 3: MA/MS Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 4 years of directly related experience.
- Level 4: MA/MS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 8 years of directly related experience.
- Level 5: Ph.D. in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 8 years of directly related experience; or a MA/MS plus a minimum of 16 years of directly related experience.

**Category 8: Remote Sensing.** Examples include (but not limited to) data and collection, processing, and management, information systems, imagery analysis and capture, and cartography,

Remote Sensing Subcategories

- Level 1: MA/MS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field and a minimum of 4 years of directly related experience; or BA/BS and a minimum of 8 years of directly related experience.
- Level 2: MA/MS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, and a minimum of 8 years of directly related experience.
- Level 3: Ph.D. Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 8 years of directly related experience; or a MA/MS and a minimum of 16 years of directly related experience..
- Level 4: Ph.D. Marine Science, Biology, Oceanography, GIS, Remote Sensing, or a related field, plus a minimum of 4 years of directly related experience; or MA/MS plus a minimum of 6 years of directly related experience;

**Category 9: Marine Science.** Examples include (but not limited to) marine biology, ecology, marine archeology and geo-archaeology, oceanography, ocean engineering, social and policy sciences, research, field and laboratory work, design, fabrication, configuration, installation, testing, and repair of the structural elements of oceanographic equipment such as sensors and field instruments, scientific technical writing and review, and data collection and synthetization.

Marine Sciences Subcategories

- Level 1: BA/BS in Marine Science or a related field, and a minimum of 4 years of directly related experience..
- Level 2: BA/BS in Marine Science, or a related field, plus a minimum of 8 years of directly related experience.
- Level 3: MA/MS Marine Science, or a related field, plus a minimum of 8 years of directly related experience.
- Level 4: Ph.D. in Marine Science, or a related field, plus a minimum of 8 years of directly related experience.

Level 5: Ph.D. in Marine Science, or a related field, plus a minimum of 16 years of directly related experience

**Category 10: Training.** Examples include (but not limited to) technical training in all areas within scope of the SOW for professional audiences, creation of instructional materials and brochures for all levels of learning, community engagements and speakership, education of K-12 audiences on literacy related to the NOS mission, and training in office-specific safety plan implementation as needed..

#### Training Subcategories

Level 1: BA/BS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, and a minimum of 4 years of directly related experience.

Level 2: MA/MS in Marine Science, Biology, Oceanography, GIS, Remote Sensing, and a minimum of 4 years of directly related experience.

Level 3: Ph.D. Marine Science, Biology, Oceanography, GIS, Remote Sensing, and a minimum of 8 years of directly related experience.

Level 4: Ph.D. in Marine Science, Biology, Oceanography, GIS, Remote Sensing, plus a minimum of 16 years of directly related experience

**Category 11: Web Designing.** Examples include (but not limited to) creation and/or development of websites and associated applications. Involvement is all aspects of the look, layout, features, and maintenance of a website.

#### Web Designing Subcategories

Level 1: BA/BS in Computer Science or a related field, and a minimum of 4 years of directly related experience.

Level 2: MA/MS in Computer Science or a related field, and a minimum of 4 years of directly related experience.

Level 3: MA/MS in Computer Science or a related field, and a minimum of 8 years of directly related experience.